

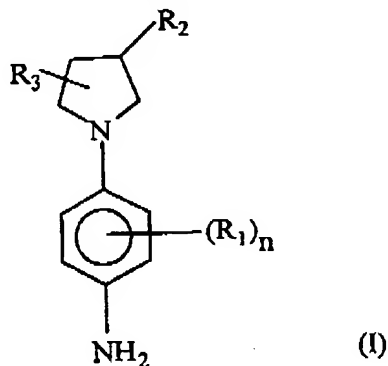
I. SUPPLEMENTAL AMENDMENT

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-53. (canceled)

54. (currently amended) A dyeing composition for dyeing keratinous fibres, in particular human keratinous fibres such as hair, comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine containing a pyrrolidine ring, at least one non-cationic tertiary para-phenylenediamine, and at least one benzomorpholine coupler chosen from 7-hydroxybenzomorpholine, 7-aminobenzomorpholine, 6-hydroxybenzomorpholine, 6-aminobenzomorpholine, 5-hydroxybenzomorpholine, 5-aminobenzomorpholine, 1-methyl-7-hydroxybenzomorpholine, 2-methyl-7-hydroxybenzomorpholine, and 5-hydroxy-7-methylbenzomorpholine, wherein the cationic tertiary para-phenylenediamine corresponds to formula I:

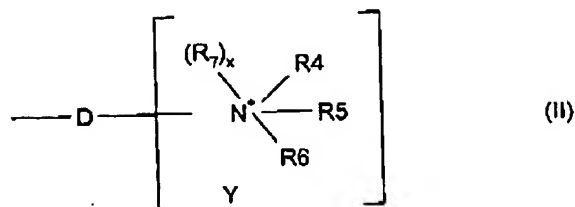


in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents a chlorine, bromine, C_1 - C_4 alkyl, C_1 - C_4 hydroxyalkyl, C_1 - C_4 aminoalkyl, C_1 - C_4 alkoxy or C_1 - C_4 hydroxyalkoxy radical,

R_2 represents an onium radical Z corresponding to formula (II)



in which

D is a single bond of a linear or branched C₁-C₁₄ alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals and which may carry one or more ketone functional groups;

R₄, R₅ and R₆, taken separately, represent a C₁-C₁₅ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ amidoalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono or di substituted with a C₁-C₄ alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; or

R₄, R₅ and R₆ together, in pairs, form, with the nitrogen atom to which they are attached, a 4, 5, 6 or 7 membered saturated carbon ring which may contain one or more heteroatoms, it being possible for the cationic ring to be substituted with a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxy alkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a (C₁-C₆)alkylcarbonyl radical, a thio (-SH) radical, a C₁-C₆ thioalkyl (-R-SH) radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical which is mono or di substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical;

~~R₇ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical whose amino is mono or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N(C₁-C₆)alkyl carbamyl(C₁-C₆)alkyl radical; an N(C₁-C₆)alkyl sulphonamido(C₁-C₆)alkyl radical;~~

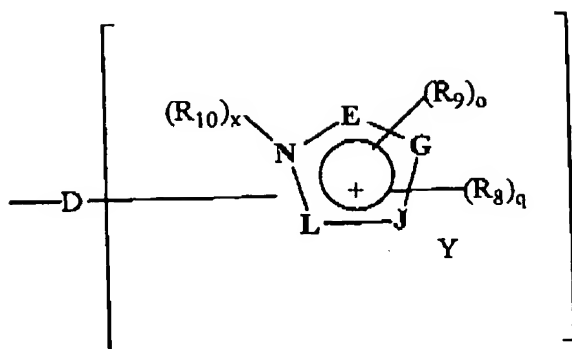
x is 0 or 1,

~~when x = 0, then and the linking arm is attached to the nitrogen atom carrying the radicals R₄ to R₆;~~

~~when x = 1, then two of the radicals R₄ to R₆ form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to the carbon atom of the saturated ring;~~

Y is a counter-ion, or

R₂ represents an onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C_1 - C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1 - C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L form an imidazole ring,

q is an integer between 0 and 4 inclusive;

o is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R_8 , which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a C_1 - C_6 alkoxy radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1 - C_6 alkylcarbonyl radical, a thio radical, a C_1 - C_6 thioalkyl radical, a (C_1 - C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 monohydroxyalkyl radical or a C_2 - C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are carried by a carbon atom,

the radicals R_9 , which are identical or different, represent a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a $\text{tri}(C_1$ - C_6)alkylsilane(C_1 - C_6)alkyl radical, a $(C_1$ - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical, a $(C_1$ - C_6)alkylcarboxy(C_1 - C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_9 are carried by a nitrogen,

R_{10} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1 - C_6 aminoalkyl radical, a C_1 - C_6 aminoalkyl radical whose amine is substituted with a $(C_1$ - C_6)alkyl, $(C_1$ - C_6)alkylcarbonyl, amido or $(C_1$ - C_6)alkylsulphonyl radical; a C_1 - C_6 carboxyalkyl radical; a C_1 - C_6 carbamylalkyl radical; a C_1 - C_6 trifluoroalkyl radical; a $\text{tri}(C_1$ - C_6)alkylsilane(C_1 - C_6)alkyl radical; a C_1 - C_6 sulphonamidoalkyl radical; a $(C_1$ - C_6)alkylcarboxy(C_1 - C_6)alkyl radical; a $(C_1$ - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a $(C_1$ - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a $(C_1$ - C_6)alkylcarbonyl(C_1 - C_6)alkyl radical; an N -(C_1 - C_6)alkylcarbamyl(C_1 - C_6)alkyl radical; an N -(C_1 - C_6)alkylsulphonamido(C_1 - C_6)alkyl radical;

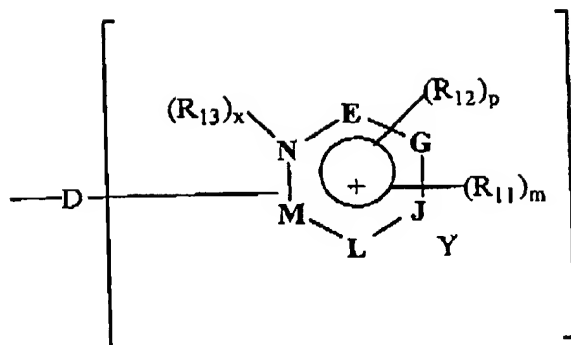
x is 0 or 1

when $x = 0$, the linking arm D is attached to the nitrogen atom,

when $x = 1$, the linking arm D is attached to one of the vertices E , G , J or L ,

Y is a counter-ion, or

R_2 represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C_1 - C_{14} alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C_1 - C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R_{11} , which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a C_1 - C_6 alkoxy radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1 - C_6 alkylcarbonyl radical, a thio radical, a C_1 - C_6 thioalkyl radical, a (C_1 - C_6)alkylthio radical, an amino radical, an amino radical which is substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 monohydroxyalkyl radical or a C_2 - C_6 polyhydroxyalkyl

radical; it being understood that the radicals R_{11} are carried by a carbon atom,

the radicals R_{12} , which are identical or different, represent a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical, a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_{12} are carried by a nitrogen,

R_{13} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1 - C_6 aminoalkyl radical, a C_1 - C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 carboxyalkyl radical; a C_1 - C_6 carbamylalkyl radical; a C_1 - C_6 trifluoroalkyl radical; a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical; a C_1 - C_6 sulphonamidoalkyl radical; a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylcarbonyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkylcarbamyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkylsulphonamido(C_1 - C_6)alkyl radical;

x is 0 or 1

when $x = 0$, the linking arm D is attached to the nitrogen atom,

when $x = 1$, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion, and

R_3 represents a hydrogen atom or a hydroxyl radical.

55. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

56. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1.

57. (previously presented) The composition of claim 54, in which the cationic tertiary para-phenylenediamine is such that R_1 is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropoxy or 2-hydroxyethoxy radical.

58. (currently amended) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 0 and R_4 , R_5 and R_6 separately are chosen from a C_1 - C_6 alkyl radical, ~~a C_1 - C_4 monohydroxyalkyl radical, a C_2 - C_4 polyhydroxyalkyl radical, a $(C_1$ - $C_6)$ alkoxy(C_1 - C_4)alkyl radical, a C_1 - C_6 amidealkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, or R_4 with R_5 form together an azetidine ring, a pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical; a C_1 - C_6 aminoalkyl radical, an aminoalkyl radical which is mono or di-substituted with a $(C_1$ - $C_6)$ alkyl radical, a $(C_1$ - $C_6)$ alkylcarbonyl, amide or $(C_1$ - $C_6)$ alkylsulphonyl radical; a C_1 - C_6 carbamylalkyl radical; a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical; a $(C_1$ - C_6)alkyl-carboxy(C_1 - C_6)alkyl radical; a $(C_1$ - C_6)alkylcarbonyl(C_1 - C_6)alkyl radical; an N -(C_1 - C_6)alkylcarbamyl(C_1 - C_6)alkyl radical.~~

59.-60. (canceled)

61. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that R_2 is a trialkylammonium radical.

62. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula III, x is equal to 0, and D is a single bond or an alkylene chain which may be substituted.

63. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z

corresponding to formula IV, x is equal to 0, and R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

64. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula IV, x is equal to 1, and R_{13} is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl radical, an amido radical, a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

65. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula IV, and R_{11} , R_{12} and R_{13} are alkyl radicals which may be substituted.

66. (currently amended) The composition of claim 54, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride,

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide,

~~N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium chloride,~~

~~N-[1-(4-Aminophenyl)pyrrolidin-3-yl]-guanidinium chloride,~~

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride,

~~{1-(4-Aminophenyl)pyrrolidin-3-yl}-(2-hydroxyethyl)dimethylammonium chloride,~~

~~{1-(4-Aminophenyl)pyrrolidin-3-yl}dimethyl-(3-trimethylsilylpropyl)ammonium chloride,~~

~~{1-(4-Aminophenyl)pyrrolidin-3-yl}-(trimethylammonium-hexyl)dimethylammonium dichloride,~~

~~{1-(4-Aminophenyl)pyrrolidin-3-yl}oxophosphorylcholine,~~

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride,

~~1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride,~~

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride,

~~1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride,~~

~~3-{3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride,~~
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethyammonium chloride,
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-tetradecylammonium chloride,
~~N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride,~~
~~N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride,~~
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride,
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride,~~
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilylpropyl)ammonium chloride,~~
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)dimethylammonium dichloride,~~
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine,~~
~~{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride,~~
~~1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride,~~
 3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]-propyl}1-methyl-3H-imidazol-1-um chloride,
~~1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride,~~

~~[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride,~~
~~3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride,~~
~~3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride,~~
~~[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride,~~
~~3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride,~~
~~1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride,~~
~~1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride,~~
3-{{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}}-1-methyl-3H-imidazol-1-ium chloride,
3-{{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}}-1-methyl-3H-imidazol-1-ium chloride,
3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride,
3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride,
[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride,
[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide,
[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide,,
[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide,
[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate,

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide,
 [1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide, and
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium
 iodide[[],]
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium
 chloride,~~
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium
 iodide.~~

67. (currently amended) The composition of claim 54, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
 bromide,
~~N⁺[1-(4-Aminophenyl)pyrrolidin-3-yl] N,N-dimethyl guanidinium
 chloride,~~
~~N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride,~~
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
 chloride,
~~[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium
 chloride,~~
~~[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethyl-
 silanylpropyl)ammonium chloride,~~

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium
 chloride,
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-
 tetradecylammonium chloride,
~~N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl~~
~~guanidinium chloride,~~
~~N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-guanidinium chloride,~~
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-
 ium chloride,
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxy-~~
~~ethyl)dimethylammonium chloride,~~
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-~~
~~trimethylsilylpropyl)ammonium chloride,~~
~~1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride,~~
~~1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium~~
~~chloride,~~
 3-[[1-(4-Aminophenyl)pyrrolidin-3-yl]carbonyl]methyl}-1-methyl-3H-
 imidazol-1-ium chloride,
 3-[[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]carbonyl]methyl}-1-
 methyl-3H-imidazol-1-ium chloride,
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-
 imidazol-1-ium chloride,
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilyl-
 propyl)-3H-imidazol-1-ium chloride,
 [1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium chloride,
 [1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide,
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium
 methosulphate,

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide, and
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium
 iodide[[],]
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
 chloride, and~~
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
 iodide.~~

68. (currently amended) The composition of claim 54, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride,
 [1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
 bromide,
~~N-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium
 chloride,~~
~~N-[1-(4-Aminophenyl)pyrrolidin-3-yl]-guanidinium chloride,~~
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
 chloride,
~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium
 chloride,~~
~~[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-
 trimethylsilylpropyl)ammonium chloride,~~

~~[1-(4-Aminophenyl)pyrrolidin-3-yl](trimethylammonium
 hexyl)dimethylammonium dichloride,~~
~~1-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride,~~
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-
 imidazol-1-ium chloride,
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-
 trimethylsilylpropyl)-3H-imidazol-1-ium chloride,
 [1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium chloride,
 [1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium
 methosulphate,
 [1-(4-aminophenyl)pyrrolidin-3-yl]butyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]pentyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]heptyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]octyltrimethylammonium iodide,
 [1-(4-aminophenyl)pyrrolidin-3-yl]decyltrimethylammonium iodide, and
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyltrimethylammonium
 iodide[[,]]
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium
 chloride,~~
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium
 iodide.~~

69. (currently amended) The composition of claim 54, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride[.],

~~[1-(4-Aminophenyl)pyrrolidin-3-yl] (2-hydroxyethyl)dimethylammonium chloride,~~

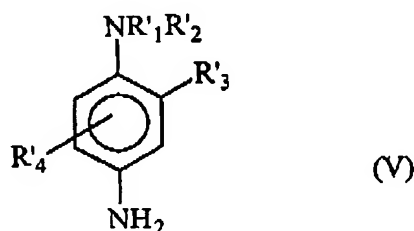
~~1'-(4-Aminophenyl)-1-methyl-[1,3]bipyrrolidinyl-1-ium chloride.~~

70. (currently amended) The composition of claim 54, wherein the cationic tertiary para-phenylene is ~~chosen from the group consisting of:~~

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and

~~[1-(4-Aminophenyl)pyrrolidin-3-yl] (2-hydroxyethyl)dimethylammonium chloride.~~

71. (previously presented) The composition of claim 54, wherein the non-cationic tertiary para-phenylenediamine corresponds to the compounds of general formula (V) and their addition salts with an acid:



in which:

R₁ is a linear or branched C₁-C₆ alkyl radical or a linear or branched C₂-C₆ hydroxyalkyl radical,

R₂ is a linear or branched C₂-C₆ hydroxyalkyl radical,

R'₃ denotes a hydrogen atom or a linear or branched C₁-C₆ alkyl radical or a halogen atom, and

R'₄ is a radical situated at any of the free positions of the benzene ring and denotes a hydrogen atom or a linear or branched C₁-C₆ alkyl radical, a linear or branched C₁-C₆ alkoxy radical or a halogen atom.

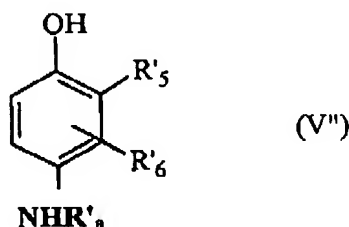
72. (previously presented) The composition of claim 71, wherein the tertiary para-phenylenediamine not containing a pyrrolidine ring is N,N-bis(β-hydroxyethyl)-p-phenylenediamine.

73. (previously presented) The composition of claim 54, wherein the non-cationic tertiary para-phenylenediamines represent from about 0.001 to about 15% by weight relative to the total weight of the composition.

74.-77. (canceled)

78. (previously presented) The composition of claim 54, wherein the benzomorpholine coupler(s) represent from about 0.001 to about 15% by weight relative to the total weight of the composition.

79. (previously presented) The composition of claim 54, wherein the composition further comprises at least one colorant chosen from the para-aminophenols of formula (V'') and their addition salts

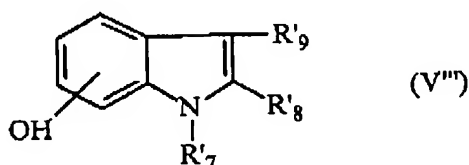


in which:

R'₅ represents a hydrogen or halogen atom, a C₁-C₄ alkyl, C₁-C₄ monohydroxyalkyl, (C₁-C₄)alkoxy(C₁-C₄)alkyl, C₁-C₄ aminoalkyl or hydroxy(C₁-C₄)alkylamino(C₁-C₄)alkyl radical,

R'₆ represents a hydrogen or halogen atom, a C₁-C₄ alkyl, C₁-C₄ monohydroxyalkyl, C₂-C₄ polyhydroxyalkyl, C₁-C₄ aminoalkyl, C₁-C₄ cyanoalkyl or (C₁-C₄)alkoxyl(C₁-C₄)alkyl radical,

R'_a represents a hydrogen atom or a C₁-C₄ alkyl radical, and the heterocyclic couplers of formula (V''') and their addition salts



in which OH occupies positions 6 or 7 of the aromatic ring and R'₇ denotes a hydrogen atom, a C₁-C₄ alkyl radical; R'₈ and R'₉, which are identical or different, denote a hydrogen atom, a lower C₁-C₄ alkyl radical, a carboxyl radical or a (C₁-C₄)alkoxycarbonyl radical, and their salts.

80. (previously presented) The composition of claim 79, wherein the para-aminophenol of formula (V'') is chosen from para-aminophenol, 4-amino-3-methylphenol, 4-amino-3-fluorophenol, 4-amino-3-hydroxymethylphenol, 4-amino-2-methylphenol, 4-amino-2-hydroxymethylphenol, 4-amino-2-methoxymethylphenol, 4-amino-2-aminomethylphenol, 4-amino-2-(β-hydroxyethylaminomethyl)phenol, 4-amino-2-fluorophenol, N-methyl-para-aminophenol and their addition salts.

81. (previously presented) The composition of claim 79, wherein the heterocyclic coupler of formula (V''') is chosen from 6-hydroxyindole, 6-hydroxy-

3-methoxycarbonylindole, 6-hydroxy-1-methyl-3-methoxycarbonylindole,
6-hydroxy-1-methyl-2,3-dimethoxycarbonylindole, 6-hydroxy-
1,2-dimethylindole, 6-hydroxy-2-methylindole, 6-hydroxy-2-carboxyindole,
6-hydroxy-2,3-dimethylindole, 6-hydroxy-3-carboxyindole, 6-hydroxy-
3-ethoxycarbonylindole, 6-hydroxy-2-ethoxycarbonylindole, 6-hydroxy-
3-methylindole, 6-hydroxy-1-methylindole, 7-hydroxyindole, 7-hydroxy-
3-methylindole.

82. (previously presented) The composition of claim 81, wherein the heterocyclic coupler of formula (V''') is 6-hydroxyindole.

83. (previously presented) The composition of claim 79, wherein the compounds of formulae (V'') and/or (V''') represent from about 0.0001 to about 10% by weight relative to the total weight of the composition.

84. (previously presented) The composition of claim 54, wherein the cationic tertiary para-phenylenediamine(s) having a pyrrolidine ring represent from about 0.001 to about 10% by weight relative to the total weight of the composition.

85. (previously presented) The composition of claim 54, wherein the composition further comprises at least one cationic polymer.

86. (previously presented) The composition of claim 54, wherein the composition further comprises at least one thickening polymer.

87. (previously presented) The composition of claim 54, wherein the composition further comprises at least one surfactant chosen from the group consisting of anionic surfactants, amphoteric or zwitterionic surfactants, nonionic surfactants and cationic surfactants.

88. (previously presented) The composition of claim 54, wherein the composition further comprises at least one additional oxidation base chosen from para-phenylenediamines, bis-phenylalkylenediamines, ortho-aminophenols, heterocyclic bases and their addition salts.

89. (previously presented) The composition of claim 88, wherein the additional oxidation base(s) are present in a quantity of between about 0.001 to about 20% by weight relative to the total weight of the composition.

90. (previously presented) The composition of claim 54, wherein the composition further comprises at least one additional coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene couplers, heterocyclic couplers and their addition salts.

91. (previously presented) The composition of claim 90, wherein the coupler is chosen from 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-(β -hydroxyethoxy)benzene, 2-amino-4-(β -hydroxyethylamino)-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, 3-ureidoaniline, 3-ureido-1-dimethylaminobenzene, sesamol, 1- β -hydroxyethylamino-3,4-methylenedioxybenzene, α -naphthol, 2-methyl-1-naphthol, 4-hydroxyindole, 4-hydroxy-N-methylindole, 2-amino-3-hydroxypyridine, 3,5-diamino-2,6-dimethoxypyridine, 1-N-(β -hydroxyethyl)amino-3,4-methylenedioxybenzene, 2,6-bis(β -hydroxyethylamino)toluene and their addition salts.

92. (previously presented) The composition of claim 90, wherein the additional coupler(s) are present in a quantity of between about 0.001 and about 20%, by weight relative to the total weight of the composition.

93. (previously presented) The composition of claim 54, wherein the composition further comprises at least one direct dye.

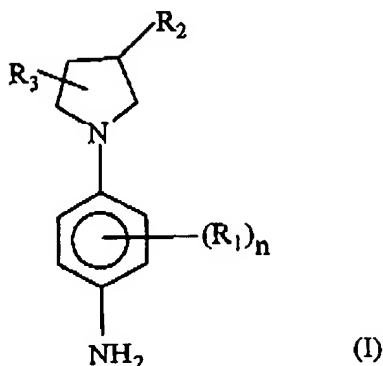
94. (previously presented) The composition of claim 54, wherein the composition further comprises at least one hydroxylated solvent such as ethanol, propylene glycol, glycerol, polyol monoethers.

95. (previously presented) The composition of claim 54, wherein the composition further comprises an oxidizing agent chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxidase enzymes, and preferably hydrogen peroxide.

96. (previously presented) A method for the oxidation dyeing of keratinous fibres such as hair, wherein a dyeing composition as defined in claim 54 is applied to the fibres in the presence of an oxidizing agent.

97. (previously presented) A multicompartment device in which a first compartment contains a dyeing composition for dyeing keratinous fibres, as defined in claim 54, and a second compartment contains an oxidizing agent.

98. (currently amended) A dyeing composition for dyeing keratinous fibres, in particular human keratinous fibres such as hair, comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine containing a pyrrolidine ring, at least one non-cationic tertiary para-phenylenediamine, and at least one benzomorpholine coupler, wherein the cationic tertiary para-phenylenediamine corresponds to formula I:

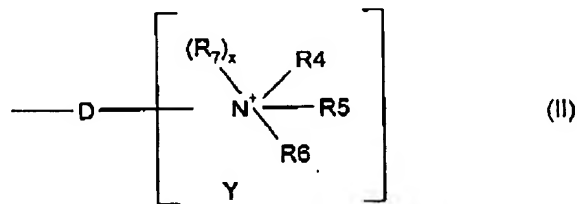


in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents ~~a chlorine, bromine, C_1 - C_4 alkyl, C_1 - C_4 hydroxyalkyl, C_1 - C_4 aminoalkyl, C_1 - C_4 alkoxy or C_1 - C_4 hydroxyalkoxy radical~~ a halogen atom; a saturated or unsaturated, aliphatic or alicyclic, C_1 - C_6 hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO_2 group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium radical Z, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R_2 represents an onium radical Z corresponding to formula (II)



in which

D is a single bond of a linear or branched C_1 - C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1 - C_6 alkoxy or amino radicals and which may carry one or more ketone functional groups;

R₄, R₅ and R₆, taken separately, represent a C₁-C₁₅ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ amidoalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or di-substituted with a C₁-C₄ alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; or

R₄, R₅ and R₆ together, in pairs, form, with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated carbon ring which may contain one or more heteroatoms, it being possible for the cationic ring to be substituted with a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxy-alkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a (C₁-C₆)alkylcarbonyl radical, a thio (-SH) radical, a C₁-C₆ thioalkyl (-R-SH) radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical;

R₇ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxy-alkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical whose amine is mono- or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or a (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₄ with R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyl alkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-

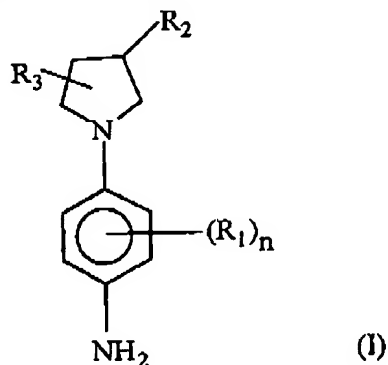
C₆ aminoalkyl radical whose amine is mono- or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical;

x = 1, and two of the radicals R₄ to R₆ form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to the carbon atom of the saturated ring;

Y is a counter-ion, and

R₃ represents a hydrogen atom or a hydroxyl radical.

99. (currently amended) A dyeing composition for dyeing keratinous fibres, in particular human keratinous fibres such as hair, comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine containing a pyrrolidine ring, at least one non-cationic tertiary para-phenylenediamine, and at least one benzomorpholine coupler, wherein the cationic tertiary para-phenylenediamine corresponds to formula I:



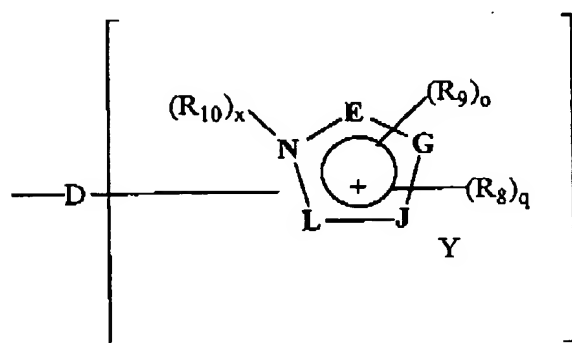
in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R₁ may be identical or different,

R₁ represents ~~a chlorine, bromine, C₁-C₄ alkyl, C₁-C₄ hydroxyalkyl, C₁-C₄ aminoalkyl, C₁-C₄ alkoxy or C₁-C₄ hydroxyalkoxy radical~~ a halogen

atom; a saturated or unsaturated, aliphatic or alicyclic, C₁-C₆ hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO₂ group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium radical Z, the radical R₁ not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R₂ represents an onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isooxazole, thiazole, isothiazole ring,

q is an integer between 0 and 4 inclusive;

o is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R_8 , which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a C_1 - C_6 alkoxy radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1 - C_6 alkylcarbonyl radical, a thio radical, a C_1 - C_6 thioalkyl radical, a (C_1 - C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 monohydroxyalkyl radical or a C_2 - C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are carried by a carbon atom,

the radicals R_9 , which are identical or different, represent a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical, a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_9 are carried by a nitrogen,

R_{10} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1 - C_6 aminoalkyl radical, a C_1 - C_6 aminoalkyl radical whose amine is substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 carboxyalkyl radical; a C_1 - C_6 carbamylalkyl radical; a C_1 - C_6 trifluoroalkyl radical; a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical; a C_1 - C_6 sulphonamidoalkyl radical; a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylcarbonyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkylcarbamyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkylsulphonamido(C_1 - C_6)alkyl radical;

x is 0 or 1

when $x = 0$, the linking arm D is attached to the nitrogen atom,

when $x = 1$, the linking arm D is attached to one of the vertices E, G, J or L,

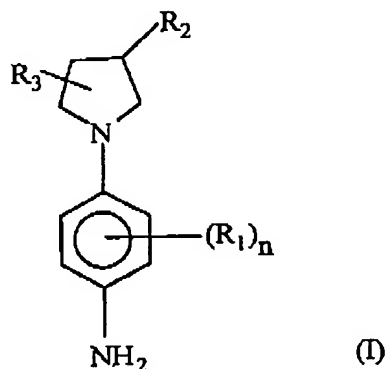
Y is a counter-ion, and

R_3 represents a hydrogen atom or a hydroxyl radical.

100. (previously presented) The composition of claim 99, wherein the cationic tertiary para-phenylenediamine is such that the vertices E, G, J and L form an imidazole ring.

101. (previously presented) The composition of claim 99, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0, D is a single bond or an alkylene chain which may be substituted.

102. (currently amended) A dyeing composition for dyeing keratinous fibres, in particular human keratinous fibres such as hair, comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine containing a pyrrolidine ring, at least one non-cationic tertiary para-phenylenediamine, and at least one benzomorpholine coupler, wherein the cationic tertiary para-phenylenediamine corresponds to formula I:

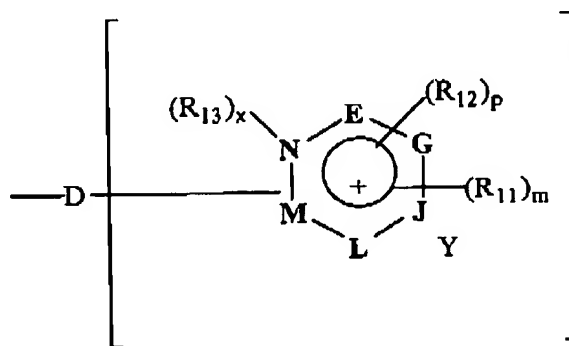


in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents ~~a chlorine, bromine, C_1 - C_4 alkyl, C_1 - C_4 hydroxyalkyl, C_1 - C_4 aminoalkyl, C_1 - C_4 alkoxy or C_1 - C_4 hydroxyalkoxy radical~~ a halogen atom; a saturated or unsaturated, aliphatic or alicyclic, C_1 - C_6 hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO_2 group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium radical Z, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R_2 represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C_1 - C_{14} alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C_1 - C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M form, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a ring chosen from the pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

$p+m$ is an integer between 0 and 5;

the radicals R_{11} , which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a C_1 - C_6 alkoxy radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1 - C_6 alkylcarbonyl radical, a thio radical, a C_1 - C_6 thioalkyl radical, a (C_1 - C_6)alkylthio radical, an amino radical, an amino radical which is substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 monohydroxyalkyl radical or a C_2 - C_6 polyhydroxyalkyl radical; it being understood that the radicals R_{11} are carried by a carbon atom,

the radicals R_{12} , which are identical or different, represent a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical, a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_{12} are carried by a nitrogen,

R_{13} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1 - C_6 aminoalkyl radical, a C_1 - C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 carboxyalkyl radical; a C_1 - C_6 carbamylalkyl radical; a C_1 - C_6 trifluoroalkyl radical; a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical; a C_1 - C_6 sulphonamidoalkyl radical; a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylcarbonyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkylcarbamyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkylsulphonamido(C_1 - C_6)alkyl radical;

x is 0 or 1

when $x = 0$, the linking arm D is attached to the nitrogen atom,

when $x = 1$, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion, and

R₃ represents a hydrogen atom or a hydroxyl radical.

103. (previously presented) The composition of claim 102, wherein the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings.

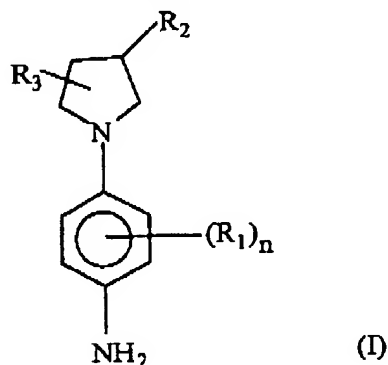
104. (previously presented) The composition of claim 102, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0 and R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C₁-C₆)alkyl, a (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamylalkyl radical.

105. (previously presented) The composition of claim 102, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 1 and R₁₃ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical whose amine is mono- or di-substituted with a (C₁-C₆)alkyl radical, a (C₁-C₆)alkylcarbonyl radical, an amido radical, a (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a

C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a C_1 - C_6 alkoxy radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, an amido radical, a C_1 - C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di- substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; and R_{12} is chosen from a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical.

106. (previously presented) The composition of claim 102, wherein the cationic tertiary para-phenylenediamine is such that R_{11} , R_{12} and R_{13} are alkyl radicals which may be substituted.

107. (currently amended) A dyeing composition for dyeing keratinous fibres, in particular human keratinous fibres such as hair, comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine containing a pyrrolidine ring, at least one non-cationic tertiary para-phenylenediamine, and at least one benzomorpholine coupler, wherein the cationic tertiary para-phenylenediamine corresponds to formula I:



in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

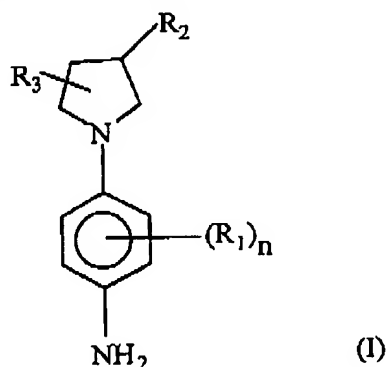
R_1 represents ~~a chlorine, bromine, C_1 - C_4 alkyl, C_1 - C_4 hydroxyalkyl, C_1 - C_4 aminealkyl, C_1 - C_4 alkoxy or C_1 - C_4 hydroxyalkoxy radical~~ a halogen atom; a saturated or unsaturated, aliphatic or alicyclic, C_1 - C_6 hydrocarbon chain, it being possible for the chain to contain one or

more oxygen, nitrogen, silicon or sulphur atoms or an SO₂ group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium radical Z, the radical R₁ not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R₂ represents the radical of formula -XP(O)(O-)OCH₂CH₂N⁺(CH₃)₃ where X represents an oxygen atom or a radical -NR₁₄, R₁₄ representing a hydrogen, a C₁-C₄ alkyl radical or a hydroxyalkyl radical, and

R₃ represents a hydrogen atom or a hydroxyl radical.

108. (currently amended) A dyeing composition for dyeing keratinous fibres, in particular human keratinous fibres such as hair, comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine containing a pyrrolidine ring, at least one non-cationic tertiary para-phenylenediamine, and at least one benzomorpholine coupler, wherein the cationic tertiary para-phenylenediamine corresponds to formula I:



in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R₁ may be identical or different,

R₁ represents ~~a chlorine, bromine, C₁-C₄ alkyl, C₁-C₄ hydroxyalkyl, C₁-C₄ aminoalkyl, C₁-C₄ alkoxy or C₁-C₄ hydroxyalkoxy radical~~ a halogen atom; a saturated or unsaturated, aliphatic or alicyclic, C₁-C₆ hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO₂ group, and it being possible for the chain to be substituted with one or

more hydroxyl or amino radicals; an onium radical Z, the radical R₁ not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R₂ represents a guanidine radical of formula $-X-C=NR_8-NR_9R_{10}$, X represents an oxygen atom or a radical $-NR_{11}$, R₈, R₉, R₁₀ and R₁₁ representing a hydrogen, a C₁-C₄ alkyl radical or a C₁-C₄ hydroxyalkyl radical, and

R₃ represents a hydrogen atom or a hydroxyl radical.